

Robust technology with low running costs.



Single drum rollers -40



BOMAG single drum rollers set the standards in soil compaction. The unrivalled expertise and experience of the world market leader has been channelled into the „-40“ series. The result: hard wearing machine technology and low running costs. In brief: these BOMAG single drum rollers are the true benchmarks for soil compaction.





No compromises.

Single drum rollers play a key role in construction engineering. They create the sound basis, in every sense, on which further work rests. There is no room for compromise, so BOMAG single drum rollers consistently exceed the targets of modern project specifications by the use of high performance technology.

- ◆ **Profit.** Lowest costs per cubic metre: BOMAG single drum rollers demonstrate how efficient soil compaction is done.
- ◆ **Power.** Maximum compaction using high linear loads and amplitudes.
- ◆ **Resale value.** Quality without compromise: BOMAG rollers offer a longer working life.
- ◆ **Handling.** Easy operation ... and fast servicing as well.
- ◆ **Durability.** Tough TIER2 engines, durable hoods, top-quality components.
- ◆ **Reliability:** for extreme hot and cold conditions – the BOMAG cooling system plus a host of other features.
- ◆ **Innovation.** E_{VIB} measuring technology for greater reliability and efficiency.
- ◆ **Flexibility.** The widest choice of options.



BOMAG single drum rollers on site in St. Petersburg.

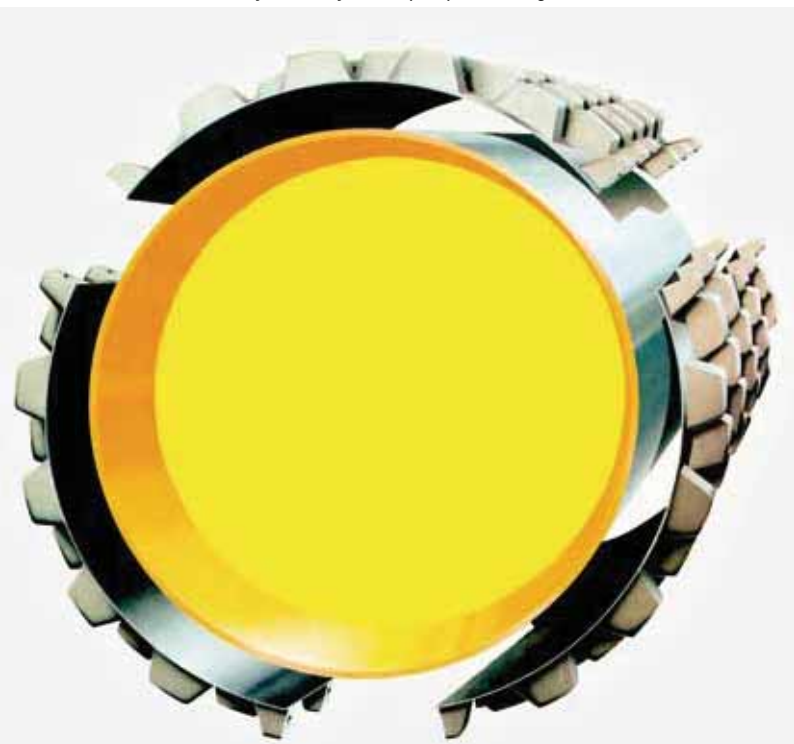
Drum and frame: Robust and well designed.

Drum specifications are designed to meet on-site requirements. Two types are available.



Smooth drum for sandy soil.

Easy assembly: Three-part pad foot segments.



The conventional smooth drum-key features: the edges are tapered for a smooth surface. Double scrapers keep drums clean. Contact scrapers are available for those really tough jobs.

PD models with pad foot drums are suitable for cohesive soils. The cleverly shaped pad foot penetrates deep into the soil and imparts a powerful kneading effect. The wide clearance between drum and frame prevents clogging, whilst the scraper tooth profile minimises friction losses. Tooth caps are made from wear-resistant manganese steel and can be replaced separately.

Smooth drums can be easily converted to pad foot roller drums using a segmented shell. This significantly expands the roller's scope of use. The three-part shape allows full adjustment and easy assembly. The segments can be quickly fitted without having to dismantle the frame.

Advantages at a glance:

- ◆ Tapered drum edges
- ◆ Two scrapers
- ◆ Contact scrapers (optional)
- ◆ Wide clearance between drums and frame
- ◆ Exchangeable caps for scraper teeth
- ◆ Three-part pad foot segmented shell allows optimum adjustment
- ◆ Segments can be fitted without dismantling the frame



Simple and clear layout: The workplace.



There is a wide choice of attachments for the -40 single drum rollers.

Workplace and rear frame.

There's nothing difficult about operating BOMAG -40 single drum rollers, even for new drivers. Coherently labelled, durable switches and clearly arranged displays make operation highly intuitive.

There is a wide selection of attachments for the driver's platform, including simple rails and solid sun roof, right up to the ROPS/FOPS roof. The cab provides extra comfort with its air conditioning unit. The driver's platform on all models is vibration insulated for fatigue-free work. All-round visibility is superb, especially to the wheels.

The rear frame features a fully enclosed pan. The robust engine hood completely protects the engine compartment, so all components are well protected against damage and vandalism. And if an accident does happen: the sheet steel hood is very easy to repair.

Advantages at a glance:

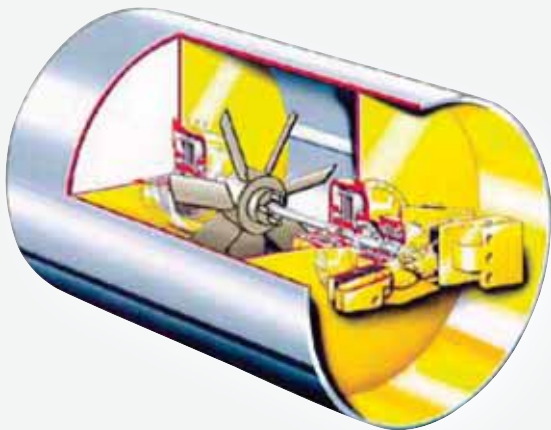
- ◆ Easy operation
- ◆ Vibration insulated driver's platform
- ◆ Outstanding all-round visibility
- ◆ Fully enclosed rear frame protecting all components
- ◆ Robust, wrap-around sheet steel hood



Customised for individual site work: totally enclosed engine compartment.

The vibration system: the power base.

Vibration is at the heart of the roller. And it beats powerfully on these BOMAG single drum rollers.



Power and endurance: vibration with high amplitudes, sealed bearings and internal cooling.

All BOMAG -40 rollers have two amplitudes and two frequencies. The high amplitudes up to 2.2 mm and well balanced parameters, such as centrifugal force, oscillating mass and static load, provide optimum depth effect and compaction output. The result of 50 years technical leadership. And of course BOMAG exciters are exceptionally durable and low-maintenance. Integrated fan cooling maximises service life.

The -40 series features models with operating weights from 9.5 to 18 t. With the right roller for virtually any application. Some models can be fitted with extra ballast options and even higher compaction forces. For example, powerful amplitudes of 2.2 mm are available with the BW 211 and BW 212. This means 25 % more depth effect.

The BW 218 D-40 shows just how efficient compaction can be: the top model in the -40 series can compact layers of up to 1.30 m of consolidated rock.

Advantages at a glance:

- ◆ Circular exciter with high compaction force
- ◆ Up to 2.2 mm amplitude for maximum depth effect
- ◆ Two amplitudes and frequencies
- ◆ Optimum vibration rating
- ◆ Long service life with fan cooling
- ◆ Wide choice of models and options: the right roller for almost every application

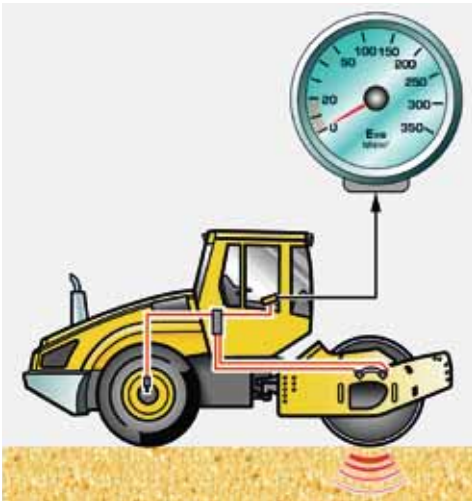


The BW 218 D-40 compacts layers up to 1.30 m.

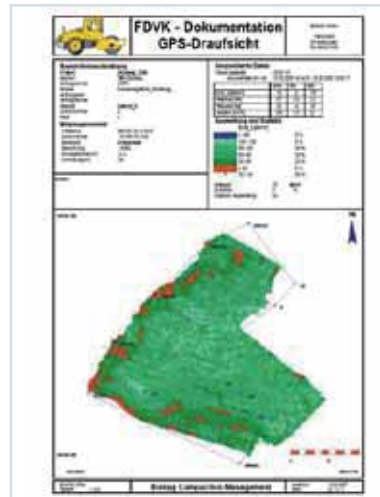


E_{VIB} measuring technology: hitting the target each time.

BOMAG E_{VIB} measuring technology controls compaction during the rolling process. Surface-covering and precise.



Basic model: BOMAG BEM E_{VIB} meter.



Combines BCM 05 positioning and BOMAG StarFire: surface covering compaction map.



Up and running anywhere: BOMAG StarFire GPS receiver.

E_{VIB} measures soil stiffness precisely and continuously during compaction, and advises when further compaction is no longer possible. It also identifies weak spots.

The driver sees the E_{VIB} results either on a BEM round gauge or on the BTMprof display. BTMprof also has a printer which documents each track.

The BCM 05 is a step up, saving E_{VIB} results for the entire site. GPS data creates accurate compaction maps, without input from the driver. And the best part is: the BOMAG StarFire GPS receiver achieves precision down to 10 cm without a local reference station. It could not be more flexible, accurate or easy!

E_{VIB} advantages at a glance:

- ◆ E_{VIB} values in MN/m^2 for surface covering control
- ◆ No excess passes
- ◆ Optimum accuracy with two sensors
- ◆ High sampling frequency for comprehensive analysis of weak spots
- ◆ Integrated printer for immediate documentation
- ◆ BCM 05 either track-bound or with GPS
- ◆ StarFire GPS without local station for greater flexibility
- ◆ Retrofitting and upgrades possible at any time



Dust and heat: not a problem for a BOMAG -40.

The drive system: full power – permanently!

The drive on BOMAG single drum rollers has been designed for performance and long life. The economical TIER2 engines with robust, mechanical injection systems, turbochargers and intercoolers are resistant to variable fuel quality.

The cooling system is a key feature and the BOMAG system offers major advantages: cooling air is taken in where it is cleanest and coolest – above and in front of the engine. This makes -40 single drum rollers capable of use in temperatures of up to 54°C with no difficulty! This design also keeps the coolers clean. Exhaust air is conducted away from the machine to prevent dust pollution.

The engine is protected by a two-stage fuel filter. The air filter is a four-stage filter: two precleaners and two filter cartridges enhance reliability on -40 models.

Drum drive and no-spin differential are standard features. No-spin means automatic locking up to 100%. If one wheel lifts, the other still drives the roller forwards. The driver can control the torque between drum and axle using manual slip control so the machine will still move even under tough conditions. The machine is capable of tackling inclines of up to 54%.



Power on gradients: with no-spin and manual slip control.

In tight areas, BOMAG single drum rollers are highly mobile with a 35° steering angle. And the generous ground clearance also boosts rough-terrain performance.

Advantages at a glance:

- ◆ Robust engines for top reliability
- ◆ BOMAG cooling system: Trouble-free use in temperatures up to 54°C
- ◆ BOMAG cooling system: Less maintenance with a clean cooler
- ◆ Multi-stage fuel and air filtering
- ◆ No-spin axles with 100% automatic lock
- ◆ Manual slip control for extra traction
- ◆ Outstanding mobility with 35° steering angle
- ◆ High ground clearance of 490 mm



Servicing. Less is more.

Fewer service requirements means less downtime, less risk and lower costs. BOMAG leads the way with reduced servicing. Its called: BOMAG Easy Service.



Easy Service – no grease nipples on -40 single drum rollers.



All service points accessible from the ground and hood opens manually.

Grease nipples? None! All bearings are filled with high-performance lubricants and sealed to last the machine life. Dirt cannot penetrate and lubricant cannot leak, maximising service life.

The hood can be easily opened fully by hand, giving clear access to the engine compartment. Drain valves are attached to the outside of the frame for all fluids.

Suction for cooling and combustion air is cleverly arranged so that the cooler remains clean and the service life of the air filters is greatly increased. The rubber buffers on the drum can be replaced individually without dismantling the frame.

And if an accident happens, the front frame on the -40 single drum rollers offers a major advantage: all components are bolted, not welded, making repair work far easier.

Advantages at a glance:

- ◆ No grease nipples
- ◆ Sealed bearings for maximum service life
- ◆ Hood can be opened manually
- ◆ All service points accessible from the ground
- ◆ Drain valves for all fluids on the frame
- ◆ Low-dust cooler
- ◆ Individually exchangeable rubber buffers
- ◆ Bolted (not welded) front frame for quick repairs



Lozenge tyres or tractor profiles.



BOMAG ROPS/FOPS roof.

A wide range of options.

BOMAG has the answer to every job situation. A wide range of models from BW 211 to BW 218 ensure the right choice is available. These single drum rollers can be individually customised using many options. Here is a selection:

- ◆ Sun roof
 - ◆ ROPS/FOPS
 - ◆ ROPS/FOPS cab
 - ◆ Deluxe seat
 - ◆ Air conditioning unit
 - ◆ Work and road traffic lights
 - ◆ Extra ballast
 - ◆ Higher amplitude
 - ◆ Pad foot shell
 - ◆ Polyurethane or sheet metal contact scrapers
 - ◆ Choice of operating displays
 - ◆ Choice of tyre profiles (tractor profile)
 - ◆ Special paint finishes
 - ◆ Flashing beacon
 - ◆ Theft protection
- and much more.

If you need a special solution for your next job, BOMAG is the right partner for you.



Federal motor safety standard lighting for safe use on roads.



Deluxe seat.



Flashing beacon.



Quality: no compromises.

BOMAG single drum rollers are always designed for a long operating life. The result: maximum up-time and high resale values. A BOMAG machine is an investment which always adds value. The key factor for profitability is not the purchase price but costs over the machine operating life.

These features keep BOMAG at the forefront for quality:

- ◆ Fan-cooled exciter
- ◆ BOMAG cooling system: for tropical conditions
- ◆ Covered wiring harnesses
- ◆ Sealed central electrics
- ◆ Powder coating
- ◆ Effective hose protection
- ◆ UV-resistant hydraulic hoses
- ◆ Enclosed rear frame to protect all components
- ◆ Robust sheet steel hoods
- ◆ Encased HD articulated joint
- ◆ Multi-stage air and fuel filters
- ◆ Electrical engine control
- ◆ Plastic diesel tank to prevent corrosion
- ◆ Vandal-protection

BOMAG quality management is certified according to ISO 9001. Components have proven reliability with extensive trials and tests. And BOMAG has experience on sites all over the world. The -40 single drum rollers are designed for use under the toughest conditions. BOMAG customer and parts supply services are always on hand. And as the expert in compaction technology, BOMAG offers skilled advice on any application question: our expert teams are happy to advise and offer support on site wherever needed.

Customers throughout the world trust the BOMAG name.

The company has been part of the FAYAT Group since 2005. BOMAG has six branches in Germany, twelve independent subsidiary companies and four production units across the globe. More than 500 dealers in over 120 countries offer distribution and support for BOMAG equipment

BOMAG -40 series single drum rollers: 100 percent BOMAG quality.



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